

**DISTRIBUTION
UNIT MANAGERS' MEETING,
200 AREA GROUNDWATER SOURCE OPERABLE UNITS**

DOE/RL

Bryan Foley	A6-38
Larry Romine	RMIS
Arlene Tortoso	RMIS

EPA

Craig Cameron	B1-46
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Ecology

Brenda Jentzen	RMIS
Tina Masterson-Heggen	H0-57
John Price	H0-57
Jennie Stults	H0-57
Jean Vanni	H0-57

FH

Lanny Dusek	RMIS
Gloria Cummins	RMIS
Bruce Ford	RMIS
Jane Borghese	E6-35
Mark Byrnes	RMIS
Virginia Rohay	RMIS
L. Craig Swanson	RMIS
Mary Todd-Robertson	E6-35

CHG

Curt Wittreich	RMIS
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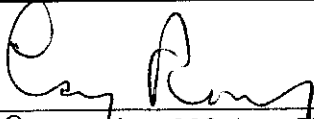
PNNL

Stuart Luttrell	K6-96
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Administrative Record (2)	H6-08
Correspondence Control	A3-01

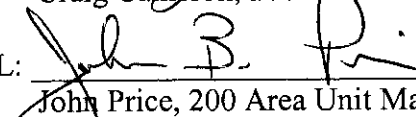
Please inform Dee Goodson – FH (373-4456)
of deletions or additions to the distribution list.

Meeting Minutes Transmittal/Approval
Unit Managers' Meeting
200 Area Groundwater and Source Operable Units
1200 Jadwin Avenue, Richland, Washington
December 15, 2005

APPROVAL:  Date: 2-1-06
Larry Romine, 200 Area Unit Manager, DOE/RL

APPROVAL:  Date: 1/19/06
Arlene Tortoso, 200 Area Assistant Manager, DOE/RL

APPROVAL:  Date: 1/26/2006
Craig Cameron, 200 Area Unit Manager, EPA

APPROVAL:  Date: 1/25/2006
John Price, 200 Area Unit Manager, Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

Attachment 1	Attendance Record
Attachment 2	Agenda
Attachment 3	Groundwater Operable Units Status
Attachment 4	Groundwater Operable Units Status Figures
Attachment 5	Source Operable Units and Facilities Status
Attachment 6	Source Operable Units and Facilities Figures
Attachment 7	Agreements and Issue Resolution Meeting
Attachment 8	Action Item List

200 Area Unit Managers Status Meeting
December 15, 2005

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
Janice Williams	FH	Integration Waste Sites / GW	372-3553
Craig Cameron	EPA	unit mgr.	376-8665
Red Lobos	EPA	unit manager.	
Dennis Falk	SRFB		
Arlene Tortore	DOE	200-Area GW	373-8631
ROB PII BZ	FH	700A	373-3243
Lanny Dusek	FH	ADD	438-1756
Virginia Roney	FH	200-PII-1	373-2803
Greg Thomas	FH	200-BP-5	373-3907
Jim Boyles	FH	GW	373-3804
John Price	ECy	Proj Mgr.	372-792,
Stuart Luttrell	PNWL	Gwater Man	376-6023
JOHN MORSE	NO &	QULUG (GLF)	376-0057
Mark Byrnes	FH	Task Lead	373-3996
John Winterhelder	FH	ECO	372-8144
Larry Remane	RL	200A	376-4747
Felma Jackson	Ecology	200A	372-7910
Jim Vonn	Ecology	Permits	372-7930
Mary Todd Robertson	FH	Waste Site Remediation	373-3720
GLORIA CUMMINS	FH	FACILITATOR	372-2484
MARGO WOOD	DOE	200A	376-8325

200 AREA UNIT MANAGERS' MEETING AGENDA

1200 Jadwin/Rm 1-C1
December 15, 2005

GROUNDWATER OPERABLE UNITS STATUS (8:30-9:15)

SOURCE OPERABLE UNITS AND FACILITIES STATUS (9:15-9:45)

ISSUE RESOLUTION MEETING (10:00-11:30)

- (See Issues List)

General

- Outstanding Action Items
- Open for Regulatory Topics or Action Items
- Risk Assessment Configuration Management Board Update

200 AREA UNIT MANAGERS' MEETING GROUNDWATER OPERABLE UNITS STATUS

1200 Jadwin/Rm 1-C1
December 15, 2005

GROUNDWATER OPERABLE UNITS STATUS

200-UP-1 OU

- Rebound Study (Attachment 4, Figures 1-4):
 - Study started January 26.
 - Tc-99 and uranium concentrations remain below interim remedial action objectives in all monitoring wells.
- RI/FS Work Plan:
 - DOE-RL received Ecology's December 2, 2005 approval letter for the 200-UP-1 RI/FS Work Plan. Please note that:
 - The SW-846 Method 5035 requested by Ecology only applies to soil analyses. Since none of the remaining 12 new wells proposed to be installed in FY2006 and FY2007 require soil analyses (except for waste designation purpose), this requirement will not impact the remainder of the RI characterization efforts. Historical soil samples were analyzed using the SW-846 Method 8260.
 - Analytical performance requirements for water samples will strive to achieve the <25% precision and accuracy requirement. However, this is not achievable for soil samples since the process of preparing soil samples for analysis adds an additional degree of error.
 - Drilling of the first of the 12 new wells started December 12, 2005.
- RI Report:
 - On hold since Ecology is requiring 2 years of analytical data from the 12 new wells be included in the RI Report.
- Float table is on hold pending completion of Tri-Party discussions on M-15 milestones.

200-ZP-1 OU

- Remediation Treatment Status:
 - Between October 1 and December 4, 2005 the 200-ZP-1 pump-and-treat system our average pumping rate was 230 gpm (Attachment 4, Figure 5).
 - System was down from November 1 – 13 for construction upgrades (improved stripper tower instrumentation).
 - Seven of the nine extraction wells are currently online. We are currently pumping at ~230 gpm. The two wells that are offline will be brought back on line the first week of January we are currently waiting for the deliver of a replacement multiplexer.

- DNAPL Investigation Status:
 - Vista Engineering is currently preparing the subcontract for FH to hookup well 299-W15-6 to the 200-ZP-1 treatment system for a 3 month pumping test. Vista wants to see if CCL4 concentrations increase over time (suggesting DNAPL source). After this study is completed we will meet to discuss whether-or-not it makes sense to keep this well on line.
 - Vista is still waiting for loading testing on Z-9 cover prior to perform thermal measurements beneath cover.
- New Well Status:
 - Currently scheduled to drill 3 new wells in the Spring FY2006 and 3 new wells in FY2007 (if needed) to help define extent of deep CCL4 contamination detected in vicinity of Old Laundry Facility and T Plant. Location of the wells to be discussed next week.
- RI/FS Status:
 - Remedial Design report has been updated and will be issued assuming EPA gives concurrence.
 - RI Report preparation began October 1, 2005 and is on schedule.
 - Feasibility Study/Proposed Plan is scheduled to begin March 6, 2006.
 - Treatability Test Plan to support the testing of the Enhanced Insitu Reductive Dechlorination bioremediation approach will start in January 2006. Dennis Faulk (EPA) stated that EPA does not feel that this approach is viable and requested a meeting to discuss. Mark Byrnes took the action to set up a meeting.
- Tc-99 Investigation Status:
 - An internal DQO workshop was held December 14, 2005 between FH, PNNL, and CHG to review conceptual site models, principal study questions, and discuss data needs. The initial draft of the DQO summary report is being revised based on the initial review by the FH-PNNL-CHG DQO technical team.
 - Meeting minutes are being prepared for the DQO decision-maker interviews and the stakeholder workshop.
 - Well 299-W11-45 (C4948) ("T-2") is being completed.
 - FH needs to meet internally to synchronize 200-ZP-1 RI/FS and Tc-99 investigation.
 - Dennis Faulk (EPA) stated that there should be enough information from the 3 wells to determine degradation and that more information can be added in the design phase.

200-PO-1 OU

- SAP:
 - The Sampling and Analysis Plan was transmitted to Ecology - awaiting approval.
 - Ecology will send a place holder.
- DQO Report:
 - On hold.
 - Ecology waiting on legal input to determine regulatory path forward.

200-BP-5 OU

- DQO Report (Attachment 4, Figure 6):
 - The draft DQO report has been extended and is planned to be completed for Decision maker review in February 10, 2006. The additional time is needed to refine the BP-5 history, exclusion rationale, identify uncertainties, complete the preliminary conceptual model, integrate science and technology, and provide recommendations for the RI/FS.
 - John Morse (DOE) noted that since the May 2005 kick-off meeting, the 200-BP-5 DQO has been a good model for determining data gap needs to make near term versus long term clean-up decisions. He noted he would like to have a brainstorming session with the contractors in January 2006.
- SAP:
 - Will initiate drilling SAP in February after completion of the draft DQO.
- New Wells:
 - Plan to drill three monitoring wells late this spring.
- Modeling:
 - The geostatistical model work for 200-BP-5 which will define the necessary wells to be sampled, is planned to start in late January.

200-PW-1 (200-ZP-2) OU

- Soil Vapor Extraction System (SVE):
 - The system was shutdown October 18, 2005 for the winter.
 - It is planned to initiate SVE operations at the Z-1A site in April to allow completion of well drilling and electrical upgrades at Z-9 in the spring.
- The passive system remains operational.
- Monthly monitoring (Attachment 4, Figures 7-9)
 - Comparison of Maximum Carbon Tetrachloride Rebound Concentrations.
 - Monthly Carbon Tetrachloride Concentrations for monitoring wells update.
 - Soil Gas Vapor Concentrations at passive wells update.

General

- Dennis Faulk requested a list from DOE for wells to be decommissioned and wells to be drilled to meet M-24. Out of the 17 wells planned, he would like to know the number of and wells for investigation. Ecology recommended the list be included in the TPA change package.

200-UP-1 Rebound Study, Technetium-99 (pCi/L)

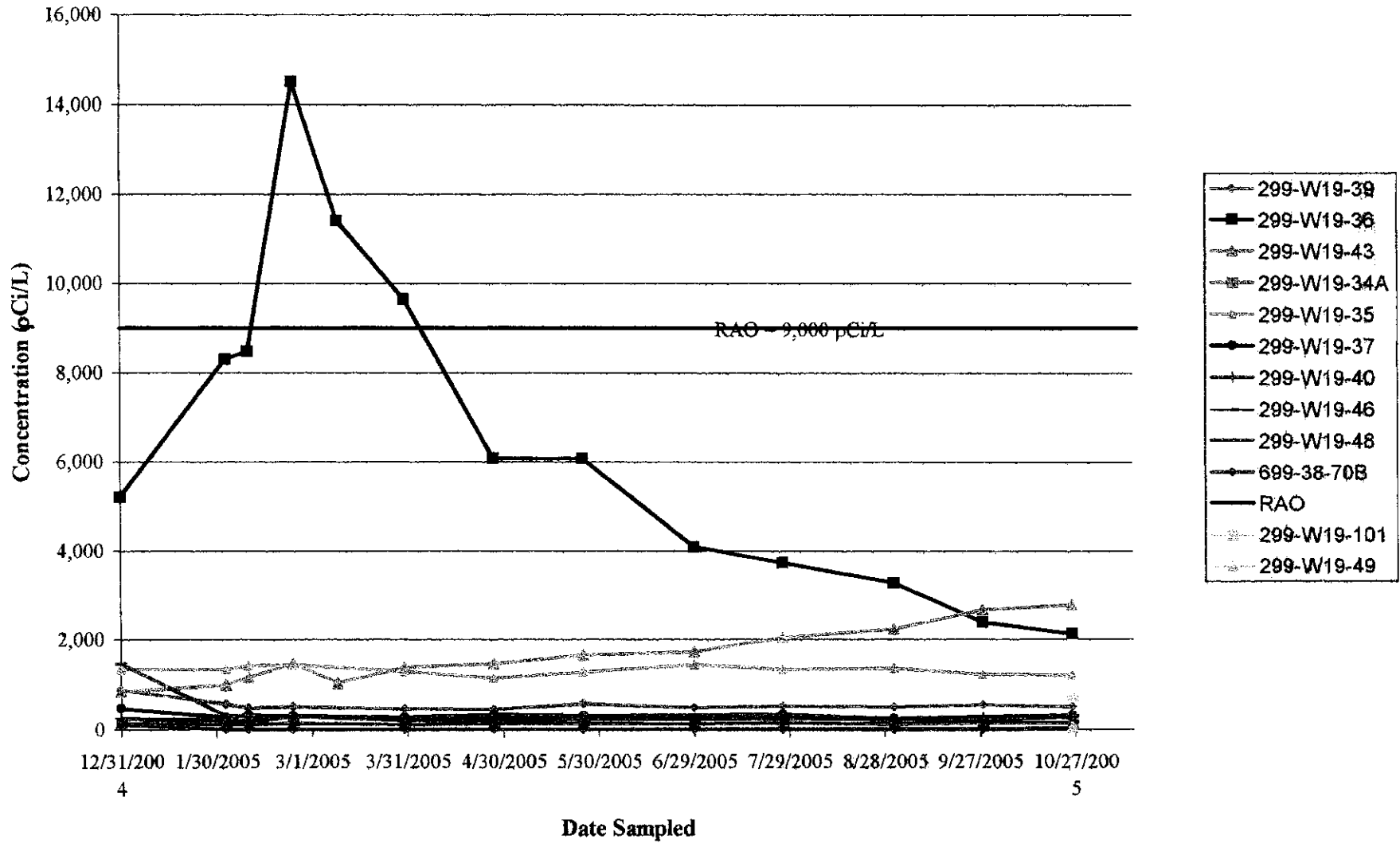


Figure 1

200-UP-1 Rebound Study, Uranium Concentrations

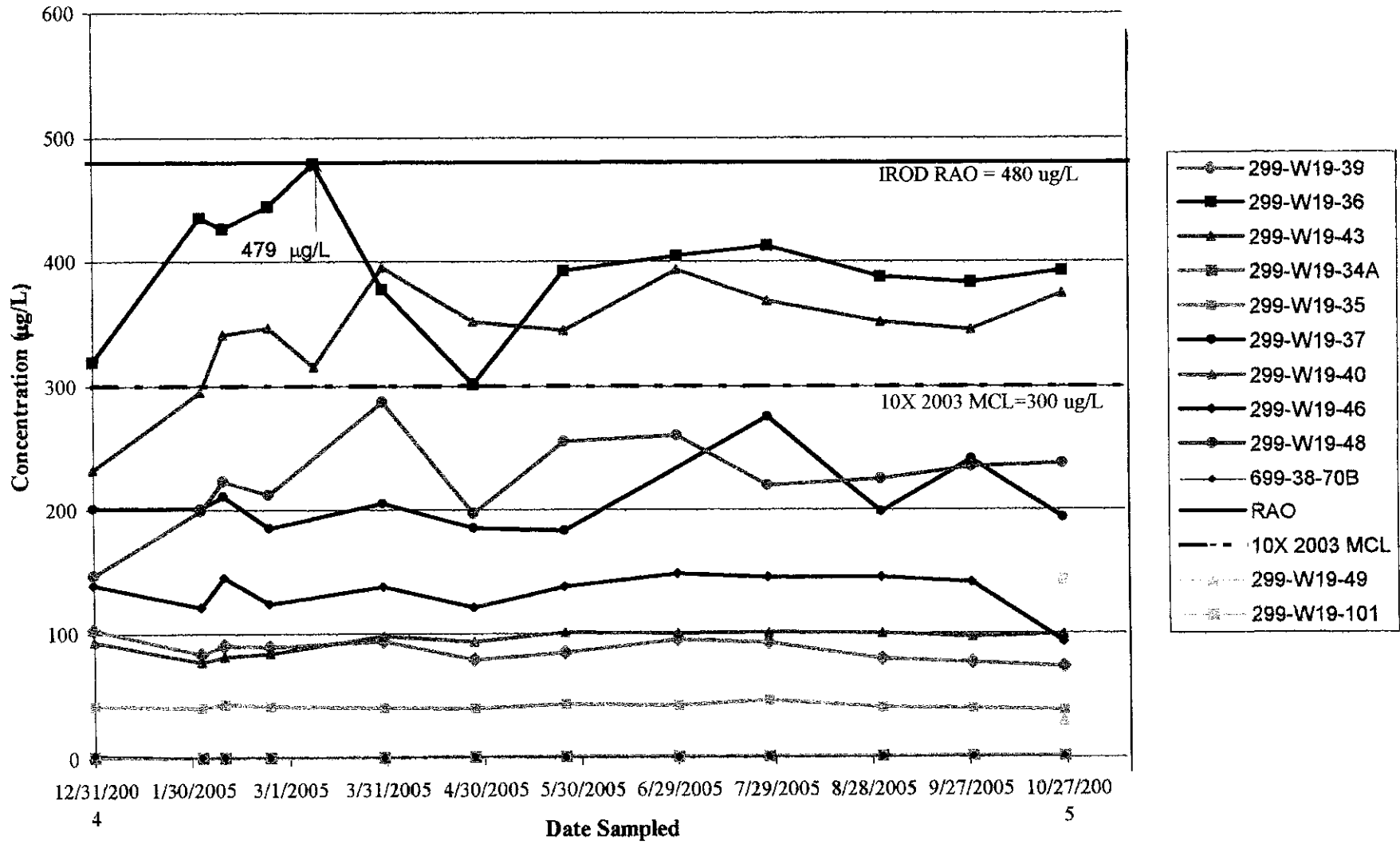


Figure 2

Carbon Tetrachloride Rebound Study, 200-UP-1

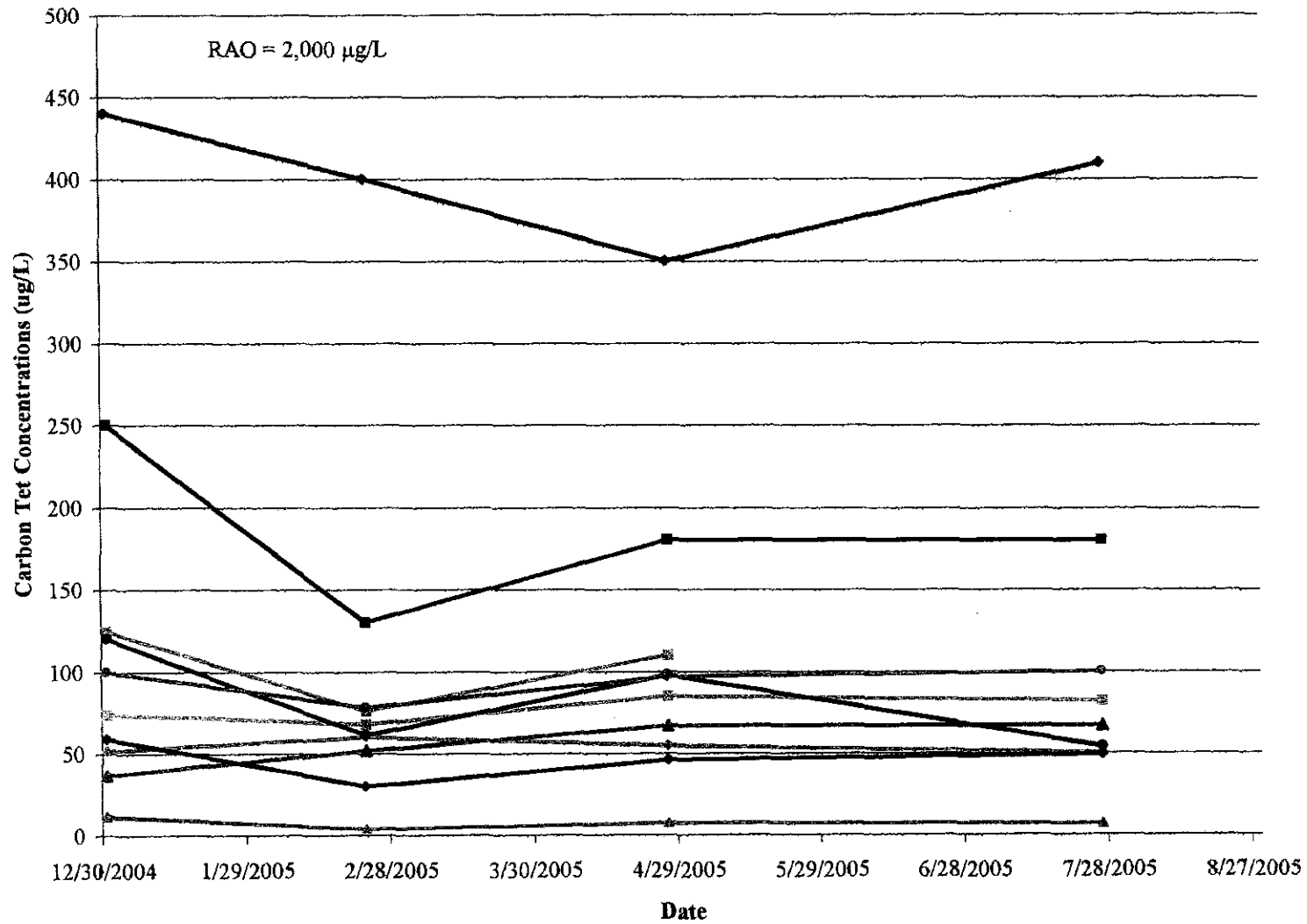


Figure 3

Nitrate - Rebound Study 200-UP-1

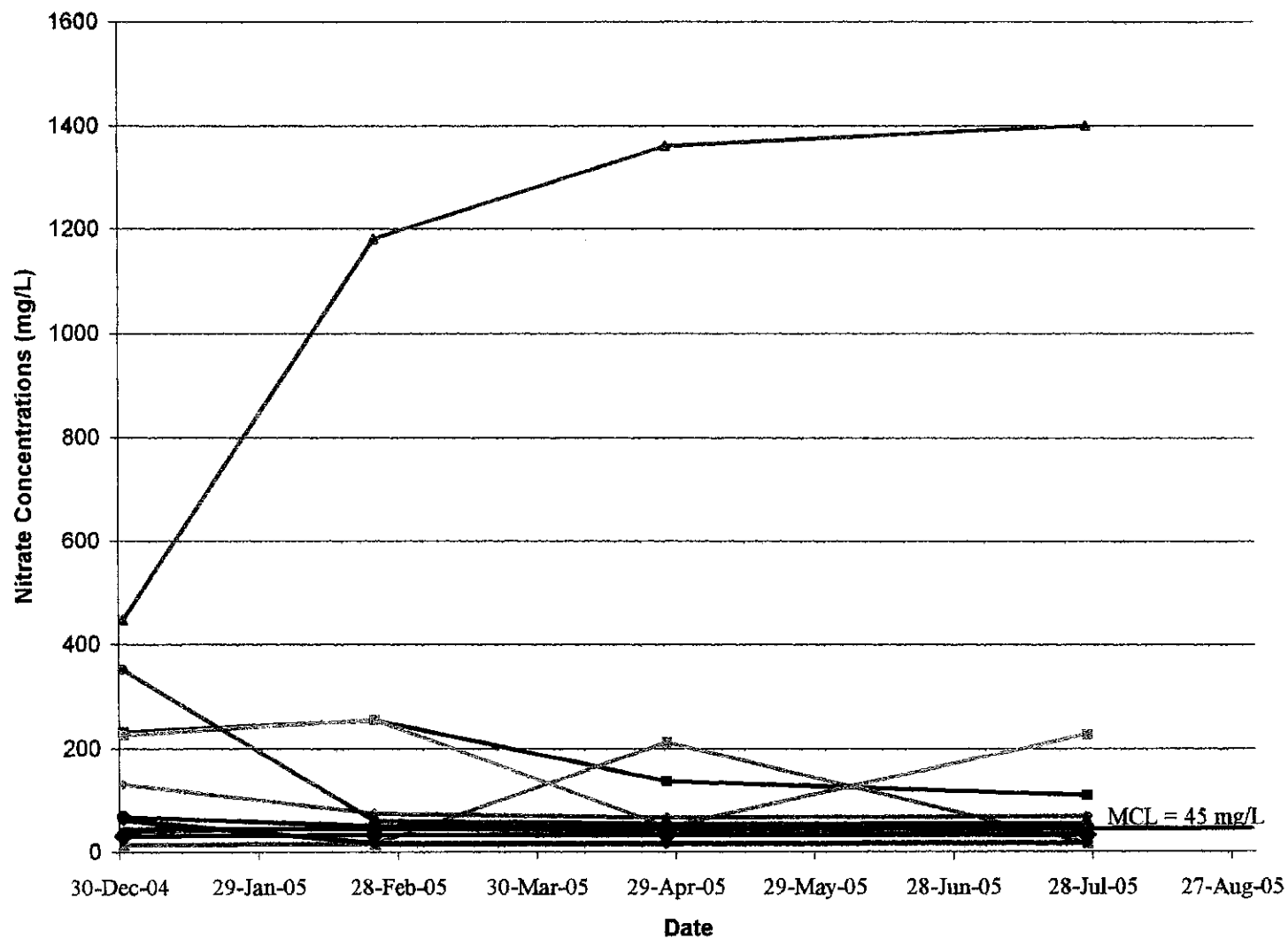


Figure 4

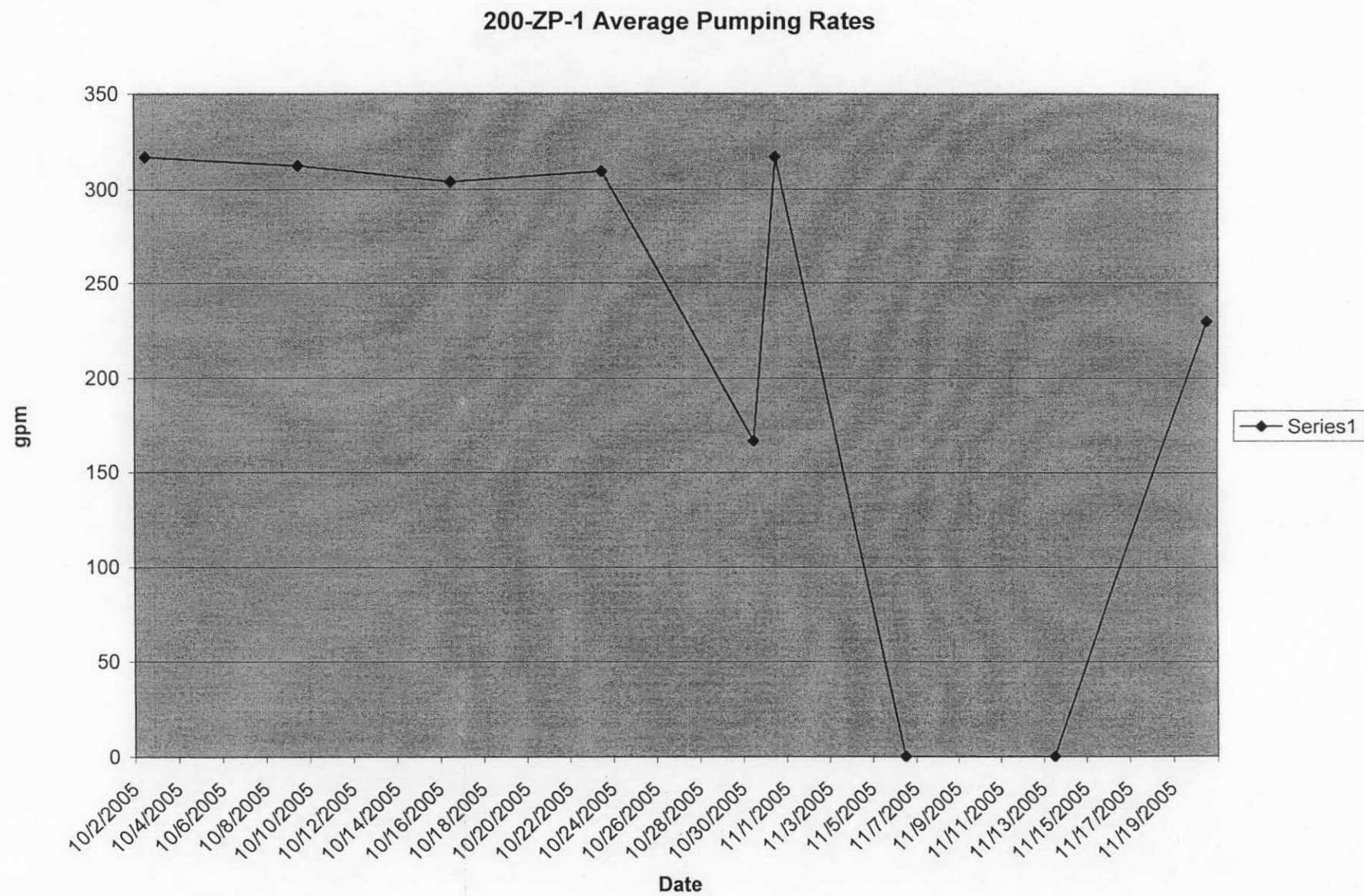


Figure 5

200-BP-5 DQO

Existing References:

Process documents: Technical Manuals for BiPO₄, UR, REDOX, Scavenging and associated flow sheets.

Inventory documents: HDW, SIM, SAC, Export documents and historical record reports.

Vadose zone RI/FS reports: BP-1, TW-1, TW-2, PW-2, CS-1, and MW-1 reports.

Groundwater Reports: Annual and PNNL reports

HEIS database analytical results

Geophysical logs

Interviews: PNNL, CHG, and D&D.

200-BP-5 DQO

Preliminary Conceptual Model:

- Flow direction Uncertainty in the trend of nitrate verses the uranium.
- Using historical gross beta and cobalt data tied with trending analyte data to reveal future groundwater flow.
- Working on uncertainty with technetium and uranium.
- Planned meeting in early January with CHG and PNNL to provide review of preliminary conceptual model.

200-PW-1 (200-ZP-2)	Location (Well or Probe)	July 2001 - June 2002	July 2002 - September 2003	July 2002 (Z-6) or October 2003 (Z-1A) -	July 2002 (Z-9) or April 2004 (Z-1A) -	October 2004 June 2005	July 2005 - November 2005
	Site	Maximum Rebound Carbon Tetrachloride (ppmv)	months* rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	months* rebound	Maximum Rebound Carbon Tetrachloride (ppmv)	Maximum Rebound Carbon Tetrachloride (ppmv)
79-03/5 ft	Z-18						
79-08/5 ft	Z-1A						
79-11/5 ft	Z-1A						
88-05/5 ft	Z-9						
88-05-07/5 ft	Z-9						
88-08/5 ft	Z-9						
87-05/5 ft	Z-1A						
87-08/5 ft	Z-1A						
84-02/5 ft	Z-9						
95-11/5 ft	Z-9						
95-12/5 ft	Z-9						
95-14/5 ft	Z-9						
CPT-13A/9 ft	Z-1A						
CPT-18/10 ft	Z-9						
CPT-17/10 ft	Z-9	3.2	6	68	15	9.0	21
CPT-18/15 ft	Z-9	1.4	6	2.4	15	2.4	21
CPT-4A/25 ft	Z-1A						
CPT-4E/25 ft	Z-1A	2.6	12	1.3	0		
CPT-18/25 ft	Z-9	1.1	6	2	15	2.6	21
CPT-31/25 ft	Z-12						
CPT-32/25 ft	Z-1A	13.0	12	8.3	6	6	8
CPT-30/28 ft	Z-18	0	12	0	6	0	6
CPT-13A/30 ft	Z-1A	2.8	12	1.8	6	2	6
CPT-1A/32 ft	Z-1A	5.8	12	3.9	6	9.5	6
CPT-27/33 ft	Z-9	1.5	6	1.7	15	2.7	21
CPT-1A/35 ft	Z-12	11.3	12	22.0	15	18.3	6
CPT-28/40 ft	Z-9						
CPT-33/40 ft	Z-18	2.3	12	2.18			
CPT-34/40 ft	Z-18	2.2	12	1.8	0	1.8	0
CPT-21A/45 ft	Z-9						
W15-220S/71.52 ft	Z-9			1.5	1		
CPT-9A/60 ft	Z-9	45.3	6	35.9	15	35.9	27
CPT-128/60 ft	Z-9	56.5	6				
CPT-G3872/61 ft	Z-9						
CPT-16/65 ft	Z-9	not measured		4.2	15		
CPT-21A/65 ft	Z-9	133	6	90.0	15	150	21
CPT-1A/68 ft	Z-12	5.5	12				
CPT-30/68 ft	Z-18						
CPT-13A/70 ft	Z-1A						
CPT-24/70 ft	Z-9			4.7	15		
CPT-32/70 ft	Z-1A	7.7	12				
W15-218SS/71.70 ft	Z-9			1.9	1		
CPT-4A/75 ft	Z-1A	7.1	3				
CPT-18/75 ft	Z-9			4.5	15		
CPT-31/78 ft	Z-12						
CPT-33/80 ft	Z-18						
W15-82/83 ft	Z-9	96.7	6	85.8	15	85.8	27
CPT-21A/86 ft	Z-9	186	6	206	15	244	21
CPT-34/86 ft	Z-18						
W15-95/96 ft	Z-9						
W15-218SS/71.66 ft	Z-9			1.6	2		
CPT-28/87 ft	Z-9	228	6	235	15	258	27
CPT-4B/90 ft	Z-1A	3.2	10				
CPT-1A/91 ft	Z-12	10.7	10				
CPT-4A/91 ft	Z-1A	7.5	2				
CPT-9A/91 ft	Z-9	74.3	6				
W15-85/91 ft	Z-9						
W18-252SS/71.00 ft	Z-1A						
W18-152/101 ft	Z-12	25.7	12	20.7	6	12.4	6
W15-8U/103 ft	Z-9	16.1	12				
CPT-4E/103 ft	Z-1A	297	12	243	6	268	6
W18-157/106 ft	Z-1A						
CPT-4F/109 ft	Z-1A						
W18-165/109 ft	Z-1A	278	12	328	6	205	6
W15-217/114 ft	Z-9	93.6	6	444	15	458	21
CPT-24/118 ft	Z-9			27.8	15		
W15-220SS/71.18 ft	Z-9			27.5	3		
W18-158/120 ft	Z-1A	163	3				
W15-218SS/71.30 ft	Z-9			23.1	1		
W18-248/130 ft	Z-18	196	12	46.3	6	41.0	6
W18-248/131 ft	Z-1A	308	12	182	6	180	6
W15-95L/144 ft	Z-9	31.8	6	25.1	15	40.3	21
W15-218SS/71.55 ft	Z-9			6.8	1		
W15-220/163 ft	Z-9						
W15-219L/175 ft	Z-9						
W15-219L/175 ft	Z-9						
W15-9U/176 ft	Z-9	16.9	6	13.1	15	13.1	21
W15-84L/180 ft	Z-9	not measured		25.9	15	25.9	21
W15-6L/182 ft	Z-9						
W15-220SS/71.85 ft	Z-9						
W18-7/197 ft	Z-1A						
W18-12/198 ft	Z-18						
W18-6U/208 ft	Z-1A						
W15-46/217 ft	Z-9						3.0

* Based on location (Z-1A/18/12 or Z-9) of monitoring point; specific points may be beyond SVE zone of influence during particular operating configurations

- Z-18 and Z-12 wells off-line Oct-96 - Apr-98

- CPT-1A, CPT-9A, and possibly CPT-7A appeared to be beyond SVE zone of influence in Oct-96 based on differential pressure (B/H-0105, p. 6-1)

- CPT-9A, CPT-21A, CPT-28 beyond SVE zone of influence in May-96 based on CCM concentrations and airflow modeling based on measured vacuums (B/H-0105, p. 6-1)

Carbon Tetrachloride Rebound Concentrations
Monitored at 200-PW-1 Soil Vapor Extraction Sites
October 2004 - November 2005

200-PW-1 (200-ZP-2)		11/17/2004	12/28/2004	01/19/2005	02/24/2005	03/10/2005	03/18/2005	05/05/2005	05/26/2005	06/23/2005	08/04/2005	08/19/2005	09/26/2005	10/25/2005	11/01/2005	11/28/2005
Location	Site	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4	CCl4
(Well or Probe)		(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)
/feet bgs																
CPT-17/ 10 ft	Z-9	5.5	5.3	6.4	7.1		11.4				2.5	2.1	---	---	1.4	1.2
CPT-18/ 15 ft	Z-9	0	1.5	3.1	0		0				0	0	0	0	0	0
CPT-4E/ 25 ft	Z-1A							2.4	1.9	1.8	1.5	1.3	0			
CPT-16/ 25 ft	Z-9	1.1	4.4	2.3	2.0		2.0				1.2	1.0	1.2	1.6		1.2
CPT-32/ 25 ft	Z-1A	0	1.7	2.7	5.5		8.0	8.6	6.6	6.8						1.1
CPT-30/ 28 ft	Z-1A	0	1.3	1.5	1.6		0	0	0	0				1.2		0
CPT-13A/ 30 ft	Z-1A	3.0	0	7.1	2.5		8.3	6.6	1.5	3.6	3.9	3.3	3.2	3.6		4.1
CPT-7A/ 32 ft	Z-1A	1.5	2.2	3.9	2.9		4.4	3.2	2.6	2.4	2.3	2.2	2.1	2.3		2.7
CPT-27/ 33 ft	Z-9	1.3	8.4	2.2	3.2		2.2				1.2	1.0	1.0	1.8		0
CPT-1A/ 35 ft	Z-12	4.7	14.0	13.2	11.3		4.3	6.0	11.1	9.2	6.6	6.6	9.2	17.2		9.1
CPT-28/ 40 ft	Z-9									5.4						
CPT-33/ 40 ft	Z-18							3.9	1.1	1.9						
CPT-34/ 40 ft	Z-18							3.0	1.1	1.9	2.0	1.7	1.4	1.8		
CPT-21A/ 45 ft	Z-9								7.4	7.9						
CPT-9A/ 50 ft	Z-9	39.4	48.4	48.4	46.4		50.8	50.3	53.9	49.7	50.6	44.0	51.8	52.8		50.9
CPT-9A/ 60 ft	Z-9	32.4	27.5	29.2	30.6		30.7	11.6	31.8	30.5	18.3	18.0	29.2	25.5		21.2
CPT-28/ 60 ft	Z-9							68.3	68.0	60.0						
CPT-C3872 / 61 ft	Z-1A	1.1	4.4	5.9	7.6		9.9	11.8	14.6	15.5				4.0		4.3
CPT-9A/ 64 ft	Z-9	20.1	2.8	26.1	19.8		35.4	31.5	39.1	36.8	38.3	36.6	38.6	38.6		36.9
CPT-16/ 65 ft	Z-9	3.5	6.7	4.9	5.1		5.2				4.7	4.3	5.5			
CPT-21A/ 65 ft	Z-9	79.9	146	143	161		166	170	153	147	167	153	147	151		137
CPT-1A/ 68 ft	Z-12							6.2	13.7	2.0						
CPT-24/ 70 ft	Z-9										3.9	3.6	3.8			
CPT-32/ 70 ft	Z-1A							5.5	3.4	4.5						
W15-219SST/ 70 ft	Z-9															
CPT-18/ 75 ft	Z-9										0	0	0			
W15-82/ 83 ft	Z-9	---	---	---	95.8	30.6	---				1.7	4.9	7.6	8.1		1.4
CPT-21A/ 86 ft	Z-9	179	184	191	209		208	205	204	196	223	187	209	208		196
CPT-28/ 87 ft	Z-9	231	223	227	245		246	244	238	232	245	216	230	241		219
W18-152/ 101 ft	Z-12	10.4	12.3	14.6	13.3		16.0	14.8	13.2	13.4				12.7		14.2
W15-8U/ 103 ft	Z-9										0	1.3	6.8	10.4		2.6
W18-167/ 106 ft	Z-1A	---	---	---	37.4		20.4	26.7	20.2	196.0				63.1		174
CPT-4F/ 109 ft	Z-1A							7.8	7.7	11.9						
W18-165/ 109 ft	Z-1A	---	---	---	35.2		15.0	22.2	30.8	10.4				65.1		394
W15-217/ 114 ft	Z-9	---	---	---	39.6		374				11.2	0	15.9	16.1		1.7
CPT-24/ 118 ft	Z-9										20.4	14.7	23.9			
W15-220SST/ 118 ft	Z-9										23.1	21.3	25.2			
W18-249/ 130 ft	Z-18	---	51.5	52.2	33.7		64.9	55.3	36.5	36.8				22.5		22.0
W15-219SST/ 130 ft	Z-9															
W18-248/ 131 ft	Z-1A	---	---	---	70.5		249	173	169	155				67.0		23.1
W15-95L/ 144 ft	Z-9	---	---	---	26.7		24.8				2.4	15.9	15.8	15.8		16.7
W15-219SST/ 155 ft	Z-9															
W15-220L/ 163 ft	Z-9										13.2	12.9	12.0			
W15-219L/ 175 ft	Z-9										0	0	1.9			
W15-9L/ 176 ft	Z-9	---	---	---	2.1		---				0	0	1.6	4.0		0
W15-84L/ 180 ft	Z-9	22.0	18.0	22.0	16.1	23.0	---				---	---	---			
W15-46/ 217 ft	Z-9										0	0	1.9	3.0	---	0
(h) Depths to probes measured through existing tubing. 60 ft deep probe confirmed and sampled. The other two depths measured (50 ft and 64 ft) could not be correlated to original depths (70 and 91 ft); these two probes were sampled also.																
(i) Unable to sample; tubing will be installed																
(j) Unable to sample before removal of tubing to support cross-well seismic investigation.																
(k) Sampled on 3/10/05 prior to removal of tubing to support Vista Engineering cross-well seismic investigation.																
(m) Unable to sample; well in use by Vista Engineering																
(n) Unable to sample; aboveground tubing needs to be repaired. Repaired and sampled on 11/1/2005.																
(o) On 10/25/05, well 299-W15-46 sampled at a depth of approximately 172 ft. E-tape could only be advanced to a depth of 173 ft.																

Carbon Tetrachloride Concentrations
Monitored at 200-PW-1 Passive Soil Vapor Extraction Wells
October 2004 - November 2005

200-PW-1 (200-ZP-2)	10/11/2004	11/15/2004	12/29/2004	1/21/2005	2/28/2005	3/18/2005	5/5/2005	5/31/2005	6/22/2005	8/17/2005	9/26/2005	10/19/2005	11/23/2005
Location (Well or Probe) /feet bgs	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)	CCl4 (ppmv)
W18-6L/ 208 ft	8.6	20.3	21.2	21.1	18.4	22.9	23.2	17.0	13.4	15.0	24.4	19.8	---(b)
W18-7/ 197 ft	18.6	21.6	20.8	6.8	24.6	23.1	21.9	5.0	19.0	0	0	0	9.2
W18-10L/ 183 ft	4.3	4.0	10.0	5.9	11.6	12.2	7.6	2.8	2.3	0	9.2	8.4	11.6
W18-11L/ 199 ft	0	4.8	6.9	2.5	2.8	7.3	6.7	1.6	2.0	1.2	9.0	0	5.9
W18-12/ 198 ft	1.4	1.7	8.1	0	5.2	9.9	5.6	0	0	1.9	2.4	0	1.6
W18-246L/ 170 ft	14.7	21.1	20.7	16.8	19.7	22.0	21.1	8.1	9.8	25.3	9.5	13.0	---(b)
W18-247L/ 167 ft	0	0	4.6	0	4.4	6.4	6.4	0	9.3	7.8	2.2	0	0
W18-252L/ 175 ft	0	13.3	16.8	1.4	14.4	18.0	11.3	0	14.8	0	16.9	0	---(b)
(b) in use by Vista Engineering for cross-well seismic investigation													

200 AREA UNIT MANAGERS' MEETING SOURCE OPERABLE UNITS AND FACILITIES STATUS

1200 Jadwin/Rm 1-C1
December 15, 2005

SOURCE OPERABLE UNITS STATUS

200-PW-1, 200-PW-3, & 200-PW-6

- Pre-job planning is continuing for the Z-9 slant borehole to be drilled in FY06.
- The Waste Container Storage Area for the waste from the Z-9 slant borehole drilling will be established in the fenced area southeast of the Z-9 site.
- Vista Engineering is preparing to conduct a cross-well seismic investigation in the 216-Z-1A area and to conduct vadose zone drilling and sampling in the 216-Z-9 area.

200-TW-2 & 200-PW-5 (no change)

200-CW-1 & 200-CW-3 (no change)

200-PW-2 & 200-PW-4

- Incorporation of FH review comments is ongoing for the FS and proposed plan. The decisional draft is slated to go for RL review in January.
- Ecology had a question on statistics and it was deferred to the ROD strategy effort.

200-CS-1

- FS on schedule for Draft A submittal on March 31, 2006
- PP on schedule for Draft A submittal on March 31, 2006
- Closure Plans on schedule for Draft A submittal on March 31, 2006

200-CW-5, CW-2, CW-4, & SC-1 (no change)

Ecological Risk Assessment

- The Phase I and Phase II Eco DQO summary reports are in FH review process for document issuance.
- The Phase I and Phase II lab data was released to the Eco risk assessment contractor approximately one month later than planned. They are working to recover from the late start and minimize delays providing the summary data to the Trustees.
- The Phase III DQO process is focusing attention on the assembly and interpretation of Hanford plant stack air deposition data. This information will justify or refute the selection of Onsite reference sites.

200-IS-1 & 200-ST-1

- Collaborative DQO process ongoing. Steps 1, 2, 3, 4 and 5 finished. Discussion ongoing to evaluate the best approach to sample design, classical vs Bayesian.
- Ecology commented that they were pleased with the ongoing DQO discussions.

200-LW-1/200-LW-2 (no change)

- RI Report is on schedule to support the 2/28/2006 TPA Milestone date.

200-MW-1

- RI Report is on schedule to support the 4/30/2006 TPA Milestone date.
- High-resolution resistivity surveys are being conducted around the 216-A-4 Crib to gain additional understanding of potential deep contamination and to support determination of path forward on the A-4 characterization.
- FH is drafting a TPA change notice to the Work Plan that would move the RI Report information for the 216-A-4 Crib to the FS.

200-UR-1

- The re-baseline effort for UR-1 is near completion.
- FH is working with Ecology on proposed changes to the sampling design prior to issuing the work plan. The changes are intended to refocus the results in support of the follow-on Treatability Study.

200-SW-1/2

- Phase-1 geophysical investigations involving EM, magnetometer and GPR surveys were completed in September on the eight, older/inactive burial grounds (~64 acres total) in 200 East and West Areas. An investigations summary report (draft) was developed in October. Final report comments are being dispositioned; document should be formally issued in December.
 - Ecology noted that they were glad the report will be issued in December and offered to discuss it at the HAB River Committee Meeting. DOE suggested waiting until February to discuss.
- Historical records research for the 22 Bin 3A and Bin 3B waste sites continues. Records have been assembled for each burial ground, and (where possible) on per trench and per waste package basis. The best, currently-available data is being used to support a mini-DQO process for non-intrusive investigations.
- DQO workshops have been held two afternoons per week since mid-November and will likely continue through December. These collaborative workshops include participants from FH, DOE-RL, Ecology and EPA.
- Data Management Plan – annotated outline has been drafted; informal/collaborative review with RL and Ecology task leads will be requested in December.

BC Cribs and Trenches

- FFS and PP, Draft A, formal comments were transmitted by EPA on 8/4/05. Responses to EPA comments were transmitted 9/8/05.
 - DOE met again with EPA on 11/2/05 to continue discussions regarding remedy selection. Met again 12/13.
 - Letter from RL to EPA dated 12/8/05 offered potential to excavate near-surface contamination under some conditions.
- A brief discussion was held regarding the cut and cap remedy. It was noted that the HAB is interested in information on the letter and path forward discussion efforts.
- Rob Lobos (EPA) asked about the August 30, 2005, surface contamination event that was the subject of an occurrence report (RL--PHMC-CENTPLAT-2005-0016). Larry Romine (DOE) stated that contamination was found during a routine survey and a surface remediation was conducted. Lanny Dusek committed to get a copy of the occurrence report and a follow-up status to Rod.

200-UW-1

- Time Critical Removal Action (TCRA) for accelerated removal of piping and interferences associated with installing the proposed barriers on high-risk waste sites 216-U-8 and 216-U-12 was approved by Ecology on 11/8/05 (Attachment 6, Figure 1).
 - Sampling and Analysis Plan (SAP) has been signed off by RL, EPA, and Ecology in ESTARS.
 - Removal Action Work Plan (RAWP) incorporating Ecology review comments. Approval expected week of 12/15/05.
 - Field work to commence in early January (approximately 30 days after TCRA and SAP are approved to allow for ERDF waste profiling).
- Tri-party review of Record of Decision (ROD) began on 12/6/05. Delay of approval beyond 10/19/05 compresses RDR/RAWP preparation and approval schedule. Ecology completing initial draft of Responsiveness Summary prior to Tri-party review.
- Public comment period for TPA Change Request for reclassifying Crib 216-U-12 to a Past Practice unit was completed on 11/21/05. Tri-parties met on 12/8/05 to address comment resolution. Explanation of Significant Difference (ESD) to be used to update the ROD with reclassification information for Crib 216-U-12.
- Haul Road construction into borrow area began on 10/24 but was shut down in early December due to weather. Evaluation of contingency plans to ensure road is completed to support other project needs is in progress.
- DOE stated they would like to see the draft responsiveness summary associated with the ROD. John Price stated he would send it out on Monday. Craig Cameron stated he would turn around comments expeditiously.

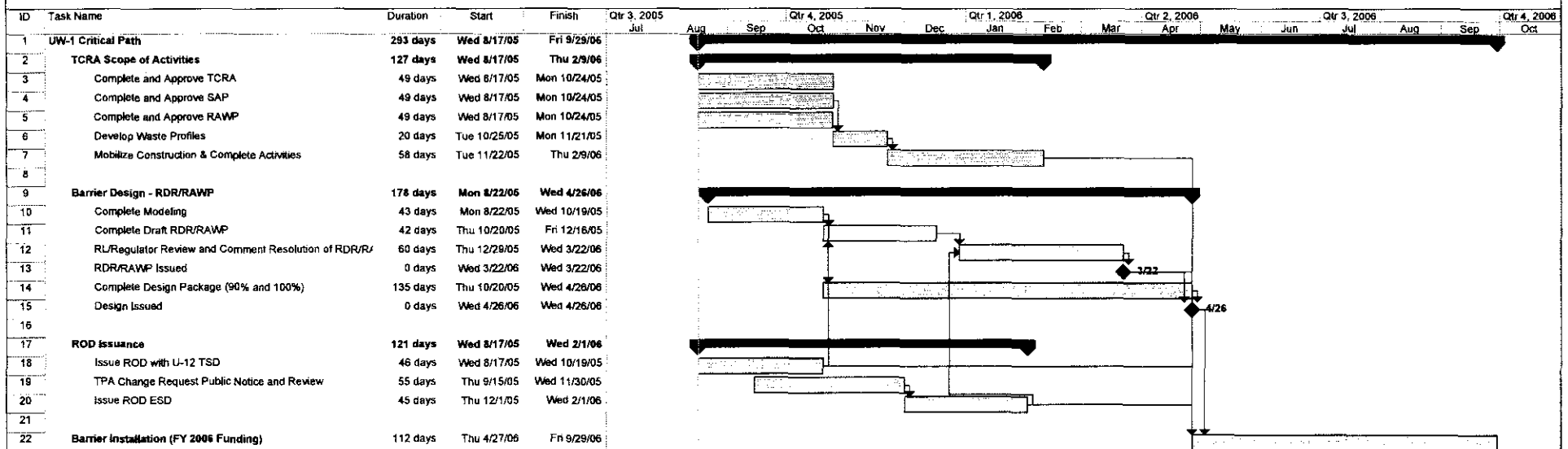
General

- Waste Control Plan approvals were provided (Attachment 6, Figures 2-6) for 200-CS-1 (CP-13935, Rev.0), 200-PW-2 (CP-14763, Rev. 2), 200-TW-1 (WMP-18473, Rev.1), and 200-TW-2 (D&D-25240).

FACILITIES STATUS

- **Facility Binning (no change)**
- **PFP** – at the PFP PMM it was determined to incorporate 231-Z into the Above Ground EE/CA.
- **B-Plant Stack** – Downgrade of this stack to a minor emission unit was approved by EPA and WDOH, and lastly requires a significant modification to the Air Operating Permit (AOP) prior to full implementation. The public comment period ended 11/9/05. As of 11/2/05, two comments had been received. WDOH will assist Ecology in comment resolution.
- **PUREX Stack** – Downgrade of this stack to a minor emission unit is under review by EPA and WDOH. A deep bed filter/aerosol test was performed the week of 8/29/05 to provide a current basis for the request. The test results were documented in a report that was transmitted to the regulatory agencies at the first of December 2005. A probe was changed out this week for NESHAP.
- **209E, B-Plant, U-Plant, PUREX and REDOX Ventilation** – Transition from continuous ventilation to intermittent ventilation first discussed with WDOH on 5/19/05. A Notice of Construction (NOC) application for 209E was transmitted to WDOH 10/28/05
- **B-Plant Stack ALARACT Demonstration** – On 11/1/05, WDOH requested an ALARACT demonstration [WAC 246-247-080(1)] for pre-filter change out activities (due to WDOH 1/29/06)
- **212N Facility** - On 10/10/05, WDOH submitted a letter to RL expressing a desire to resume discussions on potential releases in order to estimate doses to the public and to implement a program to monitor emissions based on present and future facility uses. In a meeting the week of December 5, 2005, performance of a PTE was requested.

UW-1 Critical Path Summary (8-17-05) **DRAFT**



Supplement to: CP-14763, Rev. 0, Waste Control Plan for the 200-CS-1 OU

Table 4* Well Decommissioning List

(This list will be updated as wells are identified for decommissioning, and will be provided at the 200 Area Unit Manager's Meeting and included in the UMM Minutes)

- Shading indicates wells added for this change.

Area	Hanford Well Name	Hanford Well ID
200-E	299-E24-63	A5918

* This is a new table that was not previously part of 200-CS-1 WCP.

Note: Waste Container Storage Area will be established as near as practicable to the 299-E24-63 well head, that is located near the northeast corner of the 216-A-9 Crib.

Table 4. Decommissioning Effort FY 2005 and FY 2006

(This list will be updated as wells are identified for decommissioning, and will be provided at the 200 Area Unit Manager's Meeting and included in the UMM Minutes)

- Shading indicates wells added for this change.

Area	Operable Unit	Waste Site Code	Site Type	Hanford Well Name	Hanford Well ID
200E	200-PW-2	216-B-12	Crib	299-E28-16	A6794
200E	200-PW-2	216-B-12	Crib	299-E28-76	A6827

Note: The 216-B-12 Waste Container Storage Area shown in Figure 2 of this WCP will be used.

Supplement to: WMP-18473, Rev. 1, Waste Control Plan for the BC Crib Area Waste Sites in the 200-TW-1 Scavenged Waste Group Operable Unit

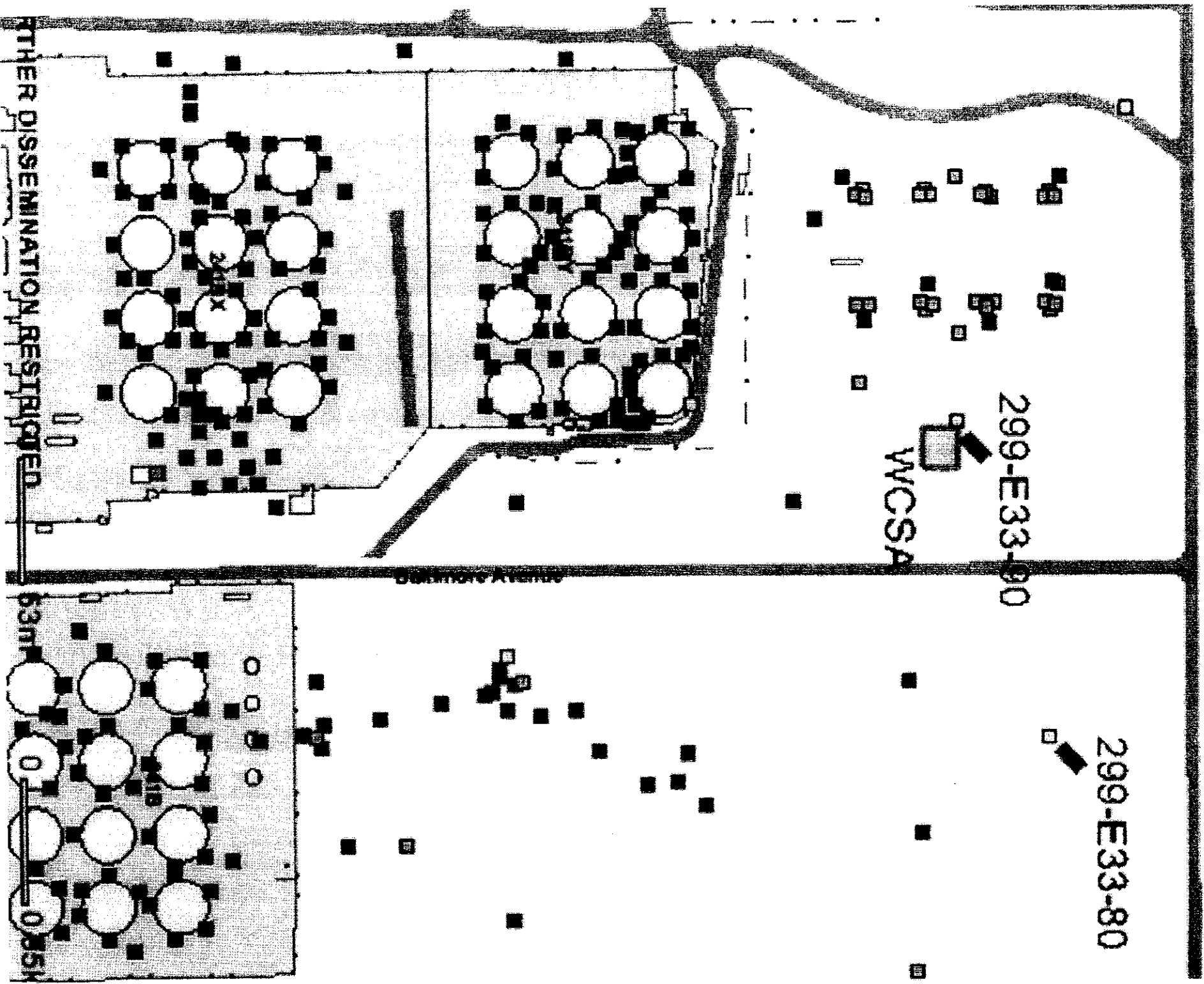
Table 4. 200-TW-1 Well Decommissioning List

(This list will be updated as wells are identified for decommissioning, and will be provided at the 200 Area Unit Manager's Meeting and included in the UMM Minutes)

- Shading indicates wells added for this change.

Well Name	Well Name	Well Name
299-E13-54	299-E13-55	299-E13-56
299-E13-57	299-E33-336	299-E33-80
299-E33-90		

Note: A Waste Container Storage Area will be established immediately adjacent to one or both of the wells being decommissioned, and be dispositioned in accordance with this WCP.



Supplement to: D&D-25140, *Waste Control Plan for the 200-TW-2 Operable Unit* ✓**Table 3. List of 200-TW-2 Wells to be Decommissioned in FY 2005 and FY 2006**

(This list will be updated as wells are identified for decommissioning, and will be provided at the 200 Area Unit Manager's Meeting and included in the UMM minutes)

- Shading indicates wells added for this change.

Area	Operable Unit	Waste Site Code	Site Type	Hanford Well Name	Hanford Well ID
200 E	200-TW-2	216-B-8	Crib	299-E33-71	A6879
200 E	200-TW-2	216-T-22	Trench	299-W15-81	A7382
200 W	200-TW-2	216-T-6	Crib	299-W11-54	A7296
200 W	200-TW-2	216-T-6	Crib	299-W11-55	A7297
200 W	200-TW-2	216-T-6	Crib	299-W11-56	A7298
200 W	200-TW-2	216-T-6	Crib	299-W11-57	A7299
200 W	200-TW-2	216-T-6	Crib	299-W11-58	A7300
200 W	200-TW-2	216-T-6	Crib	299-W11-59	A7301
200 W	200-TW-2	216-T-6	Crib	299-W11-60	A7302
200 W	200-TW-2	216-T-6	Crib	299-W11-61	A7303
200 W	200-TW-2	216-T-6	Crib	299-W11-62	A7304
200 W	200-TW-2	216-T-6	Crib	299-W11-63	A7305
200 W	200-TW-2	216-T-6	Crib	299-W11-64	A7306
200 W	200-TW-2	216-T-6	Crib	299-W11-65	A7307
200 W	200-TW-2	216-T-6	Crib	299-W11-66	A7308
200 W	200-TW-2	216-T-6	Crib	299-W11-67	A7309
200 W	200-TW-2	216-T-15	Trench	299-W11-68	A7310
200 W	200-TW-2	216-T-14	Trench	299-W11-69	A7311
200 W	200-TW-2	216-T-16	Trench	299-W11-80	A7322
200 W	200-TW-2	216-T-17	Trench	288-W11-81	A7323
200 E	200-PW-5*	216-B-62	Crib	299-E28-75	A6826
200 E	200-PW-5	216-B-62	Crib	299-E28-84	A6835
200 E	200-PW-5	216-B-62	Crib	299-E28-85	A6836
200 E	200-PW-5	216-B-62	Crib	299-E28-86	A6837

Supplement to: D&D-25140, *Waste Control Plan for the 200-TW-2 Operable Unit*

200-E	200-PW-5	216-B-62	Crib	299-E28-87	A6838
200-E	200-PW-5	216-B-62	Crib	299-E28-88	A6839
200-E	200-PW-5	216-B-62	Crib	299-E28-89	A6840
200-E	200-PW-5	216-B-62	Crib	299-E28-90	A6841
200-E	200-PW-5	216-B-62	Crib	299-E28-91	A6842

* TPA Change No. M-015-02-01, revised the investigation approach to evaluate one or more OUs in single RI/FS; per this change, the 200-PW-5 OU was grouped with the 200-TW-2 OU.

Note: Waste Container Storage Area will be established within or immediately adjacent to the 216-B-62 waste site boundary.

**Issue Resolution Meeting
Agreements and Issues List
December 15, 2005
200 Area Unit Managers' Meeting**

**Agreement: Approval of Well Updates to Waste Control Plans -
(Ecology)**

Ecology approved changes to the well list for 200-CS-1 (CP-13935, Rev.0), 200-PW-2 (CP-14763, Rev. 2), 200-TW-1 (WMP-18473, Rev.1), and 200-TW-2 (D&D-25240) Waste Control Plans.

Agreement: Waste Container Storage Area for the Z-9 Slant Borehole

- EPA agreed that the Waste Container Storage Area for the waste from the Z-9 slant borehole drilling will be established in the fenced area southeast of the Z-9 site, as shown in the attached figure. EPA agreed that the waste control plan for 200-PW-1 does not need to be revised to reflect this change.

Issue: 200-MW-1 OU Investigation Activities

Issue Statement: Contamination problems at the 216-A-4 Crib borehole have delayed completion of investigation activities at the crib and for the 200-MW-1 OU. This issue may have an impact on the TPA Milestones for this OU.

Issue Actions: FH is planning to discuss the data from the HRR, geophysical logging, and sampling at A-4 with both RL and EPA in January.

Issue Status: High-resolution resistivity surveys have been conducted around the 216-A-4 Crib to better understand the deeper contamination. A TPA change notice is being prepared to allow the data and evaluation for the 216-A-4 Crib to be included in the FS instead of the RI Report. At the UMM, EPA indicated that they would prefer to deal with this issue through the submittal letter, comment resolution, and contingent approval letter (following comment resolution and document revision) rather than through a change notice. EPA indicated they would consider and discuss internally the idea of the TPA change notice.

Agreement: 200-MW-1 RI Report

EPA and RL agreed that the RI Report should be submitted on schedule without the 216-A-4 information, which would subsequently be submitted with the FS.

**Issue Resolution Meeting
Agreements and Issues List
December 15, 2005
200 Area Unit Managers' Meeting**

Agreement: Scope for Step II Investigations of Carbon Tetrachloride Dispersed Plume in 200-PW-1, 200-PW-3 and 200-PW-6

For Step II investigations of carbon tetrachloride dispersed plume in the 200-PW-1, 200-PW-3 and 200-PW-6 Operable Units, EPA and DOE-RL concur that the remaining scope consists of:

1. a passive soil vapor survey, if needed based on the results of Vista Engineering's passive soil vapor survey conducted in December 2005.
2. vadose zone soil vapor sampling at a location in the area west of TX-TY tank farm using a direct-push technology to refusal, if needed based on FH/DOE's further review of existing data.
3. vadose zone soil vapor sampling in Trench 4 of the 218-W-4C Burial Ground using a direct-push technology to refusal.
4. vadose zone soil vapor sampling during drilling of selected RCRA and CERCLA groundwater wells (anticipated to be 5 wells in FY06).
5. no additional sampling is needed at the 218-W-3A Burial Ground or at the 216-T-19 Crib.
6. justification for sampling locations and sampling logic will be included in the RI Report.

Issue: Assigning New WIDS Entries (e.g., Pipelines) to OUs – (Ecology)

Issue Statement: Ecology noted that ORP/CH2M Hill are having pipelines added to WIDS; Ecology feels a strategy is needed for pipelines that are not assigned to soil site OUs.

Issue Actions: Ecology will also discuss the concern with Tank Farms. Parties need to work on a strategy. Specific actions were captured in the Action Item List to support reaching resolution at or shortly following the next UMM.

Issue Status: Issue initially raised at the June 16, 2005 UMM Source OU Status Meeting. DOE, Ecology, and EPA need to discuss actions and responsibilities. Specific preliminary actions were assigned during the August 18, 2005 UMM.

Issue Resolution: TBD

**200 Area Unit Managers' Meeting
OPEN ACTION ITEMS & TRACKING**

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Date Complete	Status	
53	Review original TPA and early change packages for better understanding on requirements for 2008 M-015 milestone; mock up change package to provide clarification of requirements to meet 2008 milestone to be included in next modification to M-015-QOC.	All - Williams	All	02/17/05	TBD	11/17/05		Clarification waiting for next M-015 change pkg. Hold for 120 day evaluation of characterization needs	
53a	Provide clarification wording for M-015 completion criteria at next meeting. Discuss TPA Milestone wording for M-15-QOC Draft A of RVFS	All - Williams	All	04/21/05	07/30/05	11/17/05		FH - Williams working on change package	
60	Finalize Central Plateau Facility Binning Report, DOE/RL-2005-54	RL/FH - Romine	EPA/Ecology	04/21/05	05/19/05	TBD		EPA wants buildings in TPA before they will sign binning report.	
64	Determine solution to adding pipelines not associated with an OU into WIDS with only a TBD in the OU field versus needing to link them to Waste Management Areas (WMAs).	All - Stults	All	08/18/05	09/15/05	01/13/06		EPA will email Ecology to reschedule meeting that was canceled. MP-14 was cleaned up and submitted 6 months ago.	
64a	Discuss with ORP (Janet Badden of CH2M) drafting necessary TPA changes	Ecology - Stults	All	08/18/05	09/15/05	01/13/06		See action 64 status	
65	Schedule 200-PO-1 Regulatory Path forward meeting with Ecology	DOE - Tortoso	Ecology	9/15/2005	10/20/2005	TBD		Waiting on Ecology legal	
65a	Ecology will send place holder letter to DOE	Ecology-Price	RL	12/15/2005	1/19/2006				
66	Schedule meeting on 200-UP-1 RI Report Historical Data Analysis & COPCs	Ecology - Price	RL	10/20/05	11/17/05				
68	200-UP-1 Ecology set up meeting to discuss rebound study	Ecology - Zelma	RL/FH	12/15/05	01/19/06				
69	200-UP-1 DOE provide projected end dates with 2 year monitoring sampling	DOE - Tortoso	Ecology	12/15/05	01/19/06				
70	200-ZP-1 meeting to discuss bioremediation test plan viability	FH - Byrnes	EPA/Ecology	12/15/05	01/19/06				